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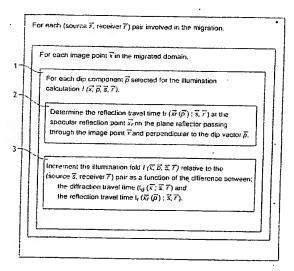
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(54) Title: METHOD OF ESTIMATING THE ILLUMINATION FOLD IN THE MIGRATED DOMAIN



(57) Abstract: The invention relates to an estimate of the seismic illumination fold (x,p) in the migrated 3D domain at an image point x for a dip of vector p characterised in that the illumination fold I(z, p; s, r) is estimated for each (source s, receiver r) pair in the seismic survey, by applying the following steps: - determination of the reflection travel time $t_r(x, r, p) : s \cdot r$) from the source s to the specular reflection point s, on the plane reflector passing through the image point s and perpendicular to the dip vector s, and then return to the reflector s; starting from the diffraction travel time $s_d(s, r, s, r)$ from the source to the said image point s and then return to the reflector s; incrementing the said illumination fold s and s related to the said (source s, receiver s) pair as a function of the difference between the diffraction travel time s and the reflection travel time s receiver s pair as a function of the difference between the diffraction travel time s and the reflection travel time s receiver s pair as a

